

OPTICS SYSTEMS

TARGET ACQUISITION SYSTEM DEVICE LIST



1 May 2006

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AN/PAS-13B (V)2 Medium Weapon Thermal Sight (MWTS) and (V)3 Heavy Weapon Thermal Sight (HWTS):

Characteristics/Description: The Thermal Weapon Sight (TWS) is a lightweight, low power, high performance forward looking infrared (FLIR) device that will augment existing crew-served night vision sights. TWS is completely passive and although primarily designed for target detection and engagement with individual and crew-served weapons, it can also be utilized for all weather surveillance. The U.S. Marine Corps is procuring both the Medium Weapon Thermal Sight (AN/PAS-13B (V)2) and the Heavy Weapon Thermal Sight (AN/PAS-13B (V)3). The MWTS can effectively engage targets out to 1000 meters while the HWTS can effectively engage targets out to 2000 meters.

Weapon Platforms: The MWTS will be mounted to the M249 Squad Automatic Weapon (SAW) and M240G Medium Machine Gun. The HWTS is intended to be mounted to the M2 .50 cal Heavy Machine Gun, and MK19 40mm Machine Gun.

Joint Program: Yes

NSN: MWTS: 5855-01-464-3152

HWTS: 5855-01-464-3151

Lead Agency: U.S. Army

TAMCN: MWTS: E19757G

HWTS: E19767G

Power Rqmts: 1 BA-5347/U
(Go To War) or
1 BB-2847/U (Recharge)

ID#: MWTS: 10092B

HWTS: 10091B

Item Exit Date: MWTS: 05/01/2017

HWTS: 05/01/2017

Weight: 5 lbs

AN/PAS-13D (V)2 Medium Weapon Thermal Sight (MWTS) and (V)3 Heavy Weapon Thermal Sight (HWTS):

Characteristics/Description: The Thermal Weapon Sight is a self-contained lightweight, compact, durable, battery-operated, infrared imaging sensor used for target acquisition. It can be used under conditions of limited visibility such as darkness, smoke, fog, dust and haze, and is effective during daylight hours. The MWTS and HWTS have the same design but the difference lies in the telescope and the software. The system comes with a MIL-STD-1913 rail grabber interface, including a vertical spacer. The MWTS can effectively engage targets out to 1,100 meters while the HWTS can effectively engage targets out to 2,200 meters. The U.S. Marine Corps is procuring both the Medium Weapon Thermal Sight (AN/PAS-13D (V)2) and the Heavy Weapon Thermal Sight (AN/PAS-13D (V)3).

Weapon Platforms: The AN/PAS-13D (V)2 can be mounted on the M240B Machine Gun and the M249 series. The AN/PAS-13D (V)3 can be mounted on the M16A1/A2 Rifle, M4 series, M2 Machine Gun, and the MK19 Machine Gun.

Joint Program: Yes

NSN: MWTS: 5855-01-524-4313

HWTS: 5855-01-524-4314

Lead Agency: U.S. Army

TAMCN: MWTS: E19757G

Field of View: MWTS - 18° and 6°
HWTS - 9° and 3°

HWTS: E19767G

Power Rqmts: 6 AA 1.6 vdc
Lithium or Alkaline

ID#: MWTS 10092C

HWTS 10091C

Item Exit Date: MWTS: 10/01/2023

HWTS: 10/30/2025

Weight: MWTS: 2 lbs 8 oz (battery pack and rail grabber with spacer)
HWTS: 3 lbs 8 oz (battery pack and rail grabber with spacer)



(V)2



(V)3



**Independent Weapon Night Sight-Thermal (IWNS-T)
(formerly Individual Thermal Sight (ITS) and Close
Quarter Battle Sight):**

Characteristics/Description: The IWNS capability is a stand-alone thermal weapon sight for close quarter battle operations that has the ability to detect and engage targets at a range of 50 to 100 yards. It is a clip-on thermal device used in combination with day sights or can be a hand-held pocket scope and is waterproof up to 66 feet. This capability is effective for night and obscured visibility conditions. The system comes with a MIL-STD-1913 rail grabber interface.

Weapon Platforms: The IWNS can be mounted on an M4A1 CQBW and any other weapon that uses a MIL-STD-1913 Rail.

Joint Program: TBD

NSN: TBD

Lead Agency: TBD

TAMCN: TBD

Field of View: 25°

ID#: TBD

Magnification: 1x

Item Exit Date:

12/1/2015

Power Rqmts: 4 DL-123

Lithium batteries

Weight: 19.5 oz (without batteries)



SOPHIE- Long-Range Thermal Imager:

Characteristics/Description: The SOPHIE is a low weight, multi-application binocular/thermal imager.

Weapon Platforms: The SOPHIE thermal imager is equally suitable for hand-held and tripod-mounted observation tasks.

Joint Program: No

NSN: 5855-14-521-9283

Lead Agency: U.S. Marine Corps

TAMCN: E19787G

Range: Detect targets out to 6-10 Km

ID#: 10988A

Power Rqmts: 1 BT-70477

Item Exit Date: 11/1/2013

Nickel-Metal

Hydride recharge

Weight: 6 lbs 4 oz



AN/PAS-22 Long Range Thermal Imager:

Characteristics/Description: The LRTI is a stand-alone, portable binocular, hand-held, battery-operated style instrument used to observe/orient, detect and identify targets, conduct surveillance and assist in engaging targets during all lighting conditions. It can be used under conditions of limited visibility and battlefield obscurants such as smoke, fog, and sandstorms. This binocular will provide vision for long-range observation and reconnaissance. The LRTI shall be able to detect man-sized targets at a range of 3,500 meters. This binocular thermal imager will replace the SOPHIE thermal system.

Weapon Platforms: No weapon platform; observation device only.

Joint Program: No

NSN: 5855-01-536-3532

Lead Agency: U.S. Marine Corps

TAMCN: E19787G

Field of View: Multiple

ID#: 10988B

Magnification: Aprox 2x

Item Exit Date: 12/30/2016

Power Rqmts: 1 BA-5347/U



Tactical-Range Thermal Imager (TRTI):

Characteristics/Description: The TRTI is a stand-alone, portable binocular, hand-held, battery-operated style instrument used to observe/orient, detect and identify targets, conduct surveillance and assist in engaging targets during all lighting conditions. It can be used under conditions of limited visibility and battlefield obscurants such as smoke, fog, and sandstorms. This binocular will provide vision for tactical-range observation and machine gun fire direction and control. The TRTI shall be able to detect man-sized targets (upright, moving tactically) at a range of 1,800 meters in clear air and 550 meters through obscurants, such as fog, smoke, and sandstorms.

Weapon Platforms: No weapon platform; observation device only

Joint Program: Yes

NSN: 5855-01-535-0971

Lead Agency: U.S. Marine Corps

TAMCN: E00127G

Field of View: Multiple

ID#: 11237A

Magnification: Aprox 4x

Item Exit Date: 09/30/2015

Power Rqmts: 8-AA Batteries

Weight: 6 lbs with batteries

Individual Weapon Night Sight I2 (IWNS I2)

Characteristics/Description: IWNS I2 is an individual imaging device capable of acquiring targets at night with increased recognition certainty when used in conjunction with the RCO variants.

Weapon Platforms: IWNS I2 shall be mounted on all versions of M16 and M4 series weapons equipped with integral MIL-STD-1913 rail systems.

Joint Program: No

NSN: TBD

Lead Agency: U.S. Marine Corps

TAMCN: E00087G

Magnification: TBD

ID#: TBD

Power Rqmts: TBD

Item Exit Date: TBD

Weight: TBD

TBD

AN/PVS-4 Individual Served Night Vision Weapon Sight:

Characteristics/Description: The AN/PVS-4 is a portable, battery-operated, second generation image intensification device used for observation and aimed fire of weapons at night. The PVS-4 is being replaced by the AN/PVS-17.

Weapon Platforms: M16A2 Service Rifle, M249 Squad Automatic Weapon (SAW), MK153 MOD O (SMAW) Rocker Launcher.

Joint Program: Yes

NSN: 5855-00-629-5334

Lead Agency: U.S. Army

TAMCN: E11587G

Magnification: 3.6x

ID#: 05975D

Power Rqmts: 2 AA 1.5 vdc

Item Exit Date: 12/30/2006

Alkaline w/adapter

(BA-3058/U); or 1 3.0 vdc

Lithium (BA-5567/U)

Weight: 4 lbs 3 oz





AN/PVS-7B/D Night Vision Goggles, Individual:

Characteristics/Description: The AN/PVS-7B/D is a lightweight monocular night vision goggle that uses prisms to give Marines binocular vision at night. Its GEN III image intensification (I^2) tube produces a clearer and sharper image than the second generation (GEN II) tube found in the AN/PVS-5.

Weapon Platforms: The AN/PVS-7B/D is head/helmet mounted.

Joint Program: Yes

NSN: 7B: 5855-01-228-0937

7D: 5855-01-422-5413

Lead Agency: U.S. Army

TAMCN: 7B: E11522B

Magnification: 1x

7D: E11522BA

Power Rqmts: 2 AA 1.5 vdc

ID#: 7B: 09500A

Alkaline or Lithium; or

7D: 10497A

1 3.0 vdc Lithium

Item Exit Date: 09/30/2014

(BA-5567/U)

Weight: 2 lbs



AN/PVS-14 Monocular Night Vision Device (MNVD):

Characteristics/Description: The AN/PVS-14 is a lightweight, MNVD that uses third generation (GEN III) I^2 technology. The AN/PVS-14 is smaller and lighter than the AN/PVS-7B/D and provides greater latitude in employment than the AN/PVS-7B/D. The AN/PVS-14 can be used as a hand-held pocket scope, mounted to a head or helmet mount, or mounted to a weapon.

Weapon Platforms: The AN/PVS-14 can be mounted to any weapon that uses the standard MIL-STD-1913 rail.

Joint Program: Yes

NSN: 5855-01-432-0524

Lead Agency: U.S. Army

TAMCN: E11542B

Magnification: 1x

ID#: 10271A

Power Rqmts: 2 AA 1.5 vdc Alkaline
or Lithium

Item Exit Date: 01/01/2013

Weight: 1 lb



AN/PVS-17B/C Miniature Night Sight (MNS):

Characteristics/Description: The AN/PVS-17 is a lightweight compact high performance device that will use the OMNI IV MX 10160 image intensifier tube. The system weighs less than two pounds, comes with a MIL-STD-1913 rail grabber interface, and is immersible to 66 feet. The AN/PVS-17 consists of two configurations, the AN/PVS-17B and AN/PVS-17C. The 17B incorporates a 2.25x magnification and the 17C incorporates a 4.5x magnification.

Weapon Platforms: The AN/PVS-17 can be mounted to any weapon that uses the standard MIL-STD-1913 rail and will replace the AN/PVS-4 in select units. The 17B is intended to be mounted on the M16 and the 17C is intended to be mounted on the M249 Squad Automatic Weapon (SAW) and M240G Medium Machine Gun.

Joint Program: No

NSN: 17B: 5855-01-491-0140

17C: 5855-01-491-6967

Lead Agency: U.S. Marine Corps

TAMCN: 17B: E11627G

Magnification:

17C: E11607G

17B - 2.25x

ID#: 17B: 10796B

17C - 4.5x

17C: 10796C

Power Rqmts: 1 each AA

Item Exit Date: 17B: 03/30/2011

Alkaline or Lithium

17C: 10/30/2011

1.5 or 3.6 vdc

Weight: 2 lbs

Updated 5/1/06



AN/TVS-5A Crew-Served Night Vision Weapon Sight:

Characteristics/Description: The AN/TVS-5A is a portable, battery-operated; GEN III I² device used for observation and aimed fire of weapons at night. The AN/TVS-5A can be tripod mounted for surveillance; however, it is generally used in the Marine Corps as a crew-served weapon sight.

Weapon Platforms: M2 .50 cal Machine Gun, MK19 40mm Machine Gun.

Joint Program: Yes

NSN: 5855-01-422-8777

Lead Agency: U.S. Army

TAMCN: E11592B

Magnification: 6.5x

ID#: 07098D

Power Rqmts: 2 AA 1.5 vdc

Item Exit Date: 01/01/2010

Alkaline w/adaptor, BA-3058/U;
or 1 3.0 vdc Lithium (BA-5567/U)

Weight: 8 lbs 2 oz



AN/PAQ-4C Infrared Aiming Light:

Characteristics/Description: The AN/PAQ-4C is a lightweight, self-contained, Class 1 laser. It is used in conjunction with night vision devices to direct weapon fire at night. The PAQ-4C is being replaced by the AN/PEQ-2A.

Weapon Platforms: The AN/PAQ-4C attaches to the M16A2 service rifle.

Joint Program: Yes

NSN: 5855-01-398-4315

Lead Agency: U.S. Army

TAMCN: E09557B

Power Rqmts: 2 AA 1.5 vdc

ID#: 09596C

Alkaline or Lithium

Item Exit Date: 04/30/2015

Weight: 8 oz



AN/PEQ-2A Infrared Illuminator/Target Pointer Illuminator Aiming Light (TPIAL):

Characteristics/Description: The AN/PEQ-2A is a lightweight, self-contained, battery-powered infrared (IR) aiming light/illuminator. When zeroed to the weapon and activated, the AN/PEQ-2A projects an IR dot that illuminates on the target and is visible only with image intensifying night vision devices. The Rail Grabber Mounting Bracket allows the Aiming Light to be attached to all weapon mounting rails as defined in the MIL-STD-1913.

Weapon Platforms: The AN/PEQ-2A attaches to the upper receiver of the M16A2/A4/M4. The Bracket Adapter is compatible with the TPIAL and the mounting brackets used on the M2 and M60 Machine Guns.

Joint Program: Yes

NSN: 5855-01-447-8992

Lead Agency: U.S. Army

TAMCN: E17987G

Power Rqmts: 2 AA 1.5 vdc

ID#: 10470A

Alkaline or Lithium

Item Exit Date: 10/30/2009

Weight: 12 oz





AN/PEQ-4 Medium Power Laser Illuminator (MPLI):

Characteristics/Description: The MPLI is a Class 4 laser pointing and illuminating system capable of providing illumination and point capabilities for close air support (CAS).

Weapon Platforms: The MPLI will be used in conjunction with image intensified night vision devices, such as the AN/PVS-7 and AN/AVS-6 Night Vision Goggles.

Joint Program: Yes

NSN: 5855-01-460-8365

Lead Agency: U.S. Navy

TAMCN: E17997G

Power Rqmts: 6 AA 1.5 vdc

ID#: 10580A

Alkaline or Lithium

Item Exit Date: 01/31/2009

(or 3 3.0 vdc

DL123A Lithium)

Weight: 1 lb 4 oz

AN/PEQ-6A Integrated Laser Light Module (ILLM):

Characteristics/Description: The AN/PEQ-6A ILLM provides the user with either visible or infrared illumination of the target for target acquisition, and either visible or infrared target aiming point for fire control. Both laser beams can be zeroed to the weapon and each other. The laser beams can also be operated in combination with the visible and IR illumination beams.

Weapon Platforms: The AN/PEQ-6A is intended for use on the M9 and CQBW but is capable of attaching to any weapon that utilizes a MIL-STD-1913 rail.

Joint Program: No

NSN: 5860-01-491-9639

Lead Agency: U.S. Marine Corps

TAMCN: E09577B

Power Rqmts: 2 DL 123A Lithium

ID#: 10820A

Item Exit Date: 10/30/2012

Weight: 5 oz



AN/PSQ-18A Grenade Launcher Day Night Sight Mount (GLDNSM):

Characteristics/Description: The AN/PSQ-18A, Model 1800, is an enhanced aiming device designed to enable the Marine to rapidly and precisely fire the M203 in daylight, low-light, and night conditions. The AN/PSQ-18A GLDNSM is being procured via the U.S. Special Operations Command (USSOCOM) to fulfill the requirements of the Marine Corps' M203 Enhanced Sighting Device (ESD) program.

Weapon Platforms: The AN/PSQ-18A will be mounted to the M203.

Joint Program: Yes

NSN: 1010-01-516-0953

Lead Agency: USSOCOM

TAMCN: E17797B

Power Rqmts: 1 AA 1.5 vdc Alkaline

ID#: 11065A

or Lithium

Item Exit Date: 11/30/2014

Weight: 1 lb 2 oz





Laser Boresight System (LBS):

Characteristics/Description: The LBS is used to boresight (align) the open sights, Thermal Weapon Sight, and other Day or Night Vision devices to the various weapons systems to which they are attached. The AN/PEM-1 will replace the LBS. The only difference is the AN/PEM-1 has a low power laser setting. Either device is acceptable for use.

Weapon Platforms: The LBS comes with 5.56mm, 7.62mm, and .50 cal attachable mandrels. 40mm adapters are available for the M203 and MK-19.

Joint Program: No

NSN: 5860-01-466-2087

Lead Agency: U.S. Marine Corps

TAMCN: E09567B

Power Rqmts: 1 AA 1.5 vdc
Alkaline or
Lithium

ID#: 10471A

Item Exit Date: 07/30/2010

Weight: 14 oz

AN/PEM-1 Laser Borelight System (LBS):

Characteristics/Description: The Laser Borelight System is a Class 2 laser device that emits a highly collimated beam of visible light for precise zeroing. This system facilitates zeroing of iron sights, I² sights, thermal weapon sights, and laser aiming devices. The AN/PEM-1 has a low power laser setting that is useful when performing weapon boresighting during daylight, low light and darkness conditions.

Weapon Platforms: The AN/PEM-1 comes with 5.56mm, 7.62mm, and .50 cal attachable mandrels.

Joint Program: Yes

NSN: 5860-01-471-2091

Lead Agency: U.S. Army

TAMCN: E09567B

Power Rqmts: 1 AA battery

ID#: 10471B

Item Exit Date: 12/1/2015

Weight: 4.1 oz (with one AA battery)



Advanced Target Pointer Illuminator Aiming Light (ATPIAL):

Characteristics/Description: The ATPIAL provides a highly collimated beam of infrared energy for weapon aiming and an adjustable focus infrared beam for target illumination. The device also provides a highly collimated beam of visible energy for weapon aiming. The ATPIAL has low profile aiming and illumination boresight adjusters. This device is 50% smaller and lighter than the TPIAL. The system comes with a MIL-STD-1913 Rail Grabber interface using the Integral Rail Grabber Bracket. The ATPIAL is the successor to the AN/PEQ-2A.

Weapon Platforms: The ATPIAL has an Integral Rail Grabber Bracket that mounts to any weapon using the standard MIL-STD-1913 Rail, which includes the M4/M16 rifles, M249, M240, M2, and Mk 19. The ATPIAL can also be used as a handheld illuminator/pointer.

Joint Program: Yes

NSN: 5855-01-534-5931

Lead Agency: U.S. Army

TAMCN: E17987G

Power Rqmts: 1 3.0 vdc DL123A
Lithium

ID#: 10470B

Item Exit Date: TBD

Weight: 7.5 oz (with battery)





Integrated Pointer/Illuminator Module (IPIM):

Characteristics/Description: The IPIM provides a highly collimated beam of infrared energy for weapon aiming and an adjustable focus infrared beam for target illumination. The IPIM is designed to withstand the shock of heavy weapons. The White Light LED Illuminator provides target identification/illumination without night vision devices, and is greater than 60 lumens in the high power mode. The IPIM has low profile aiming and illumination boresight adjusters. This device can be used as a handheld illuminator/pointer or can be mounted to weapons with a MIL-STD-1913 Rail.

Weapon Platforms: The IPIM has an Integral Rail Grabber Bracket that mounts to various weapons, including M16A4, M4/M4A1, M240B, M249, and M240G. The IPIM has an M240/M249 Adapter Bracket.

Joint Program: Yes

NSN: TBD

Lead Agency: U.S. Army

TAMCN: TBD

Power Rqmts: 2 3.0 vdc DL123A
Lithium

ID#: TBD

Item Exit Date: TBD

Weight: 11 oz (with batteries)

Infrared Zoom Laser Illuminator Designator 1000P (IZLID)

Characteristics/Description: The IZLID is a handheld weapon, or equipment mounted 1000mW infrared pointer and illuminator for use with night vision or infrared sensitive camera systems. The beam is adjustable from tight pinpoint (0.1 mrad) to a wide flood beam (13.4 mrad) with a quick twist of the lens. A multi-position switch allows the laser to operate at 3 different power levels. LOW (500mQ), HIGH (1000mW), and PULSE (1000mW @ 304 Hz).

Weapon Platforms: The IZLID can be used in either the hand-held or weapon mounted mode. The IZLID mounts to the M16A2/A4 service rifle, M4A1 Close Quarter Battle Weapon, and the M1014 shotgun via an integral MIL-STD-1913 rail attachment bracket.

Joint Program: No

NSN: 5855-01-502-6414

Lead Agency: U.S. Marine Corps

TAMCN: E00067B

Magnification: N/A

ID#: 11173A

Power Rqmts: 4 Alkaline AA Batteries

Item Exit Date: 3/1/2015

Weight: 1lb 7oz





Visible Light Illuminator (VLI):

Characteristics/Description: This is a compact, lightweight, combat flashlight that projects a wide-angle beam with a concentrated central beam of white light for searching, acquisition, identification, and momentary dazzling of targets in any low-light environment.

Weapon Platforms: The VLI can be used in either the hand-held or weapon-mounted mode. The VLI mounts to the M16A2/A4 service rifle, M4A1 Close Quarter Battle Weapon, and the M1014 shotgun via an integral MIL-STD-1913 rail attachment bracket.

Joint Program: No

NSN: 5855-01-448-5464

Lead Agency: U.S. Marine Corps

TAMCN: N6030IIEP

Power Rqmts: 6 AA 1.5 vdc

ID#: 10012B

Alkaline or Lithium

Item Exit Date: 12/01/2019

Weight: 9 oz

TBD

Visible Light Illuminator (VLI): Replacement

Characteristics/Description: .

Weapon Platforms:

Joint Program: No

NSN: TBD

Lead Agency: U.S. Marines

TAMCN: E00308B

Power Rqmts: TBD

ID#: TBD

Item Exit Date: TBD

Weight: TBD



Trijicon Advanced Combat Optical Gunsight (ACOG)

TA31F 4X32 :

Characteristics/Description: The ACOG TA31F is an optical aiming sight designed for use with the service rifle configured with the MIL-STD-1913 Rail Adapter System. It attaches to the rail to provide the user a targeting tool to engage distant daylight and near low-lit targets with increased identification certainty.

Weapon Platforms: The TA31F will be mounted on the M16A4.

Joint Program: No

NSN: 1240-01-514-8428

Lead Agency: U.S. Marine Corps

TAMCN: E17912B

Magnification: 4x

ID#: 10997A

Power Rqmts: None

Item Exit Date: 07/30/2013

Weight: 1 lb



Trijicon Rifle Combat Optic (RCO) AN/PVQ-31A (A4) and AN/PVQ-31B (M4):

Characteristics/Description: The RCO is a fixed 4x optical aiming sight designed for use with the service rifle configured with the MIL-STD-1913 Rail Adapter System. It attaches to the rail to provide the user a targeting tool to engage distant daylight and near low-lit targets with increased identification certainty. The reticles of the two RCO scopes appear identical. However, each reticle is specific to the ballistics of the weapon and is marked with identification (A4 or M4) at the bottom center of the reticle display.

Weapon Platforms: The RCO AN/PVQ-31A (A4) will be mounted on the M16A4 or A2 Rifle. The RCO AN/PVQ-31B (M4) will be mounted on the M4 Carbine.

Joint Program: No

NSN: 1240-01-525-1648 (A4)

Lead Agency: U.S. Marine Corps

NSN: 1240-01-534-1114 (M4)

Magnification: 4x

TAMCN: E17107G (A4)

Power Rqmts: None

TAMCN: E00177M (M4)

Weight: 1 lb

ID#: 11064A (A4)

ID#: 11064B (M4)

Item Exit Date: A4: 01/30/2015

M4: 09/30/2015



EOTech Holographic Diffraction Sight (HDS) :

Characteristics/Description: The EOTech HDS is a non-magnified optical sight that facilitates the rapid engagement of targets at short- and mid-range distances. The holographic sight employs a heads-up display that eliminates blind spots, constricted vision, or the tunnel vision associated with tubed sights. The HDS is compatible with all generations of night vision intensifier tubes and can be positioned in tandem with many image intensification devices. The HDS is a SAC 1 SL-3 component of the M4A1 Close Quarter Battle Weapon (CQBW).

Weapon Platforms: The HDS will be mounted on the M4A1 CQBW.

Joint Program: No

NSN: 1240-01-492-5264

Lead Agency: U.S. Marine Corps

TAMCN: N/A

Magnification: 1x

ID#: 11059A

Power Rqmts: 2 AA 1.5 vdc Alkaline
or Lithium

Item Exit Date: 12/1/2021

Weight: 11.5 oz



Leupold Mark 4 10x40mm LR/T M3:

Characteristics/Description: The Mark 4 LR/T M3 is a fixed 10X power scope. It has adjustments for parallax for specific ranges from 50 yards to infinity using a turret-mounted focus knob, without taking your eyes off the target. It also possesses a mil-dot reticle.

Weapon Platforms: The Mark 4 LR/T M3 will be mounted on the Designated Marksman Rifle (DMR).

Joint Program: No

NSN: 1240-01-470-6548

Lead Agency: U.S. Marine Corps

TAMCN: E03117M

Magnification: 10x

ID#: N/A

Power Rqmts: None

Item Exit Date: 10/30/2013

Weight: 21 oz

TBD

Scout Sniper Medium Range Night Sight(SSMRNS):

Characteristics/Description: The SSMRNS will provide a new medium-range night sight capability that will integrate with the M40A3, M82A3, and a semi-automatic sniper rifle. The SSMRNS is a lightweight, weapon mounted, battery operated, imaging device for engagement of targets at night and low light conditions. The SSMRNS is an individual optic, capable of assisting scout sniper teams engaging targets during reduced light and/or obscured targets with increased identification certainty from 400-800 yards. The SSMRNS shall be used in conjunction with the Scout Sniper Day Scope (SSDS).

Weapon Platforms:

Joint Program: No

NSN: TBD

Lead Agency: U.S. Marine Corps

TAMCN: E00207B

Magnification: TBD

ID#: TBD

Power Rqmts: TBD

Item Exit Date: TBD

Weight: TBD

TBD

Sniper Observer Night Observation Device (SONOD):

Characteristics/Description: . The SONOD optimally will interface with the SSOT. The SONOD is a lightweight, night vision device for detecting, recognizing, observing, identifying, and ranging targets during reduced light and/or obscured targets to 400 yards for man-sized targets and to 800 yards for vehicle-sized targets. The SONOD will be used in conjunction with the SSOT.

Weapon Platforms:

Joint Program: No

NSN: TBD

Lead Agency: U.S. Marine Corps

TAMCN: E00197B

Magnification: TBD

ID#: TBD

Power Rqmts: TBD

Item Exit Date: TBD



Unertl Sniper Scope:

Characteristics/Description: The Unertl Sniper Scope is a fixed 10X power scope. The scope comes in two versions, the MST-100 and the MST-150. The MST-100 is intended to be mounted on the M40A1 and M40A3. The MST-150 is intended to be mounted on the Special Application Scoped Rifle (SASR). Both systems encompass a mil-dot reticle that enables the sniper to estimate ranges out to 1000 yards.

Weapon Platforms: M40A1, M40A3, & SASR

Joint Program: No

NSN: MST-100: 1240-01-123-4730

Lead Agency: USMC

MST-150: 1240-01-379-5837

Magnification: 10x

TAMCN: MST-100: E14602M

MST-150: E14752M

Power Rqmts: None

ID#: MST-100: 89072B

MST-150: 8F980B

Weight: 2 lbs 4 oz

Item Exit Date:

MST-100: 12/30/2022

MST-150: 09/30/2015



M49 Telescope:

Characteristics/Description: The M49 Observation Telescope is a 20-power daytime telescope. The telescope is used for making ground observations of a target area and effective artillery fire.

Weapon Platforms: N/A

Joint Program: Yes

NSN: 6650-00-530-0960

Lead Agency: U.S. Army

TAMCN: E19007B

Magnification: 20x

ID#: 00591A

Power Rqmts: None

Item Exit Date: 06/01/2008

Weight: 1 lb 12 oz



AN/PVS-9 (V)4 Night Vision Sniperscope Sight (SIMRAD KN203FAB-Omni-IV) :

Characteristics/Description: The SIMRAD KN203FAB will allow the user to engage and/or identify targets during periods of low-light or nighttime operations when used with the sniper day sight. The SIMRAD is equipped with a mounting system that allows it to be attached to a sniper day scope and a field adjustable boresight that enables the system to be boresighted to any weapon system on which it is mounted.

Weapon Platforms: The AN/PVS-9 (V)4 will primarily be mounted to the M40A3.

Joint Program: No

NSN: 5855-01-526-4703

Lead Agency: U.S. Marine Corps

TAMCN: E11567G

Magnification: 1x

ID#: 11085A

Power Rqmts: 2 AA 1.5 vdc

Item Exit Date: 12/01/2010

Alkaline or Lithium

Weight: 3 lbs 9 oz



AN/PVS-10 (V)2 Sniper Night Sight :

Characteristics/Description: The AN/PVS-10 (V)2, Sniper Night Sight, is an integrated day/night sniper rifle sight. The AN/PVS-10 (V)2 eliminates the need for separate optical sighting systems for day and night operation, and the requirement to re-zero the sight when changing from day to night or vice versa.

Weapon Platforms: The AN/PVS-10 (V)2 will be mounted to the M40A3.

Joint Program: Yes

NSN: 5855-01-499-1239

Lead Agency: U.S. Army

TAMCN: E17907G

Magnification: 8.5x

ID#: 11108A

Power Rqmts: 2 AA 1.5 vdc

Item Exit Date: 09/30/2012

Alkaline or Lithium

Weight: 4 lbs 10 oz



Scout Sniper Day Scope (SSDS):

Characteristics/Description: The SSDS is a variable power scope that provides the scout/sniper with the capability to clearly, easily and quickly, acquire and engage targets out to the maximum effective range of the host weapon. The SSDS allows for the use of properly matched adjustment cams to fire from 100 yards to the maximum effective range for the M40A3 firing M118LR ammunition and the M82A3 firing MK211 Raufoss ammunition. It is waterproof up to 33 feet and has a first focal plane, USMC mil-dot duplex type reticle. The Scout Sniper Day Scope is replacing the 10x Unertl Sniper Scope.

Weapon Platforms: The SSDS mounts to the M40A3 Sniper Rifle, MIL-STD-1913 Rail, and existing rail systems on the M40A3 and M82A3 Sniper Rifles.

Joint Program: No

NSN: 1240-01-533-1854

Lead Agency: U.S. Marine Corps

TAMCN: N/A

Magnification: Objective: 3x to 15x

ID#: 89072C

Power Rqmts: 3 vdc CR2032 Lithium

Item Exit Date: 11/2015

Weight: no more than 3 lbs

TBD

Scout Sniper Observation Telescope (SSOT):

Characteristics/Description: The SSOT is a lightweight, variable power, tripod mounted telescope that will replace the out-dated M49 Sniper 20x power fixed telescope throughout the United States Marine Corps. The SSOT is used for detecting, recognizing, observing, identifying, and ranging targets during daylight with increased identification certainty. The SSOT interfaces with the SONOD. The intent of the SSOT is to provide the Marine Scout Sniper Team with enhanced ability to clearly, easily, and quickly engage targets out to the maximum effective range of the individual weapons, during the day and when used in conjunction with the SONOD in night and low light conditions.

Weapon Platforms:

Joint Program: No

Lead Agency: U.S. Marine Corps

Magnification: TBD

Power Rqmts: TBD

NSN: TBD

TAMCN: E00167B

ID#: TBD

Item Exit Date: TBD

Weight: TBD

TBD

Scout Sniper Urban Night Sight (SSUNS):

Characteristics/Description: The SSUNS will provide a new short-range (urban) night sight capability that will integrate with the M40A3, M82A3, and a semi-automatic sniper rifle. The SSUNS is a lightweight, weapon mounted, and battery operated imaging device for engagement of targets at night and low light conditions. The SSUNS is an individual optic, capable of assisting scout sniper teams engaging targets during reduced light and/or obscured targets with increased identification certainty from 25-400 yards. The SSUNS shall be used in conjunction with the SSDS.

Weapon Platforms:

Joint Program: No

Lead Agency: U.S. Marine Corps

Magnification: TBD

Power Rqmts: TBD

NSN: TBD

TAMCN: E00187B

ID#: TBD

Item Exit Date: TBD

Weight: TBD